PTO/SB/05 (06-03) Approved for use through 07/31/2003. OMB 0651-0032 U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Attorney Docket No. 297/181 UTILITY PATENT APPLICATION First Inventor Keith E. Bowers TRANSMITTAL Title See 1 in Addendum (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. EV 281802362 US Mail Stop Patent Application Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or 1. X Computer Program (Appendix) (Submit an original and a duplicate for fee processing) 2. X Applicant claims small entity status. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) 3. X Specification [Total Pages 172 Computer Reader Form (CRF) (preferred arrangement set forth below) - Descriptive title of the invention Specification Sequence Listing on: b. - Cross Reference to Related Applications Statement Regarding Fed sponsored R & D CD-ROM or CD-R (2 copies); or - Reference to sequence listing, a table, or a computer program listing appendix

Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) Statements verifying identity of above copies - Detailed Description ACCOMPANYING APPLICATION PARTS - Claim(s) - Abstract of the Disclosure Assignment Papers (cover sheet & document(s)) 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 37 CFR 3.73(b) Statement 10. Power of (when there is an assignee) Attorney [Total Sheets 5. Oath or Declaration English Translation Document (if applicable) a. X Newly executed (original or copy) Information Disclosure Copies of IDS Statement (IDS)/PTO-1499 Citations Copy from a prior application (37 CFR 1.63(d)) Preliminary Amendment (for continuation/divisional with Box 18 completed) Return Receipt Postcard (MPEP 503) (Should be specifically itemized) **DELETION OF INVENTOR(S)** Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) name in the prior application, see 37 CFR Nonpublication Request under 35 U.S.C. 122 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: __ Continuation Continuation-in-part (CIP) of prior application No.: Examiner_ Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS X Customer Number: Correspondence address below 25397 Name Address Zip Code City State

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Country

Signature

Richard E. Jenkins

Telephone

Registration No. (Attorney/Agent)

Fax

Date

09/09/2003

28,428

JENKINS & TAYLOR

patent attorneys

September 9, 2003

RICHARD E. JENKINS

JEFFREY L. WILSON

ARLES A. TAYLOR, JR.

DAVID P. GLOEKLER

GREGORY A. HUNT

E. ERIC MILLS

BENTLEY J. OLIVE

MICHAEL J. CROWLEY

*CHRIS PERKINS, PH.D.

"JAMES DALY IV, PH.D.

JEFFREY CHILDERS, PH.D.

OF COUNSEL SOROIINI BISWAS

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"Express Mail" mailing number: EV 281802362 US

Date of Deposit: September 9, 2003
I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissigner for Patents, P.O. Box 1450, Alexandria,

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Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

> U.S. Patent Application for APPARATUS AND METHOD FOR REMOVING PHOSPHORUS FROM WASTE LAGOON **EFFLUENT**

Our Ref. No. 297/181

Sir:

Please find enclosed the following:

- Utility Patent Application Transmittal Form PTO/SB/05 (2 pages); 1.
- 2. Fee Transmittal Form PTO/SB/17 (1 page) in duplicate;
- A U.S. patent application for APPARATUS AND METHOD FOR 3. REMOVING PHOSPHORUS FROM WASTE LAGOON EFFLUENT (173 pages);
- 4. Twenty-seven (27) sheets of informal drawings;
- 5. Unexecuted Declaration (2 pages);
- A return-receipt postcard to be returned to our offices with the U.S. 6. Patent and Trademark Office date stamp thereon; and

Commissioner for Patents September 9, 2003 Page 2

7. A Certificate of Express Mail No.: EV 281802362 US.

Please contact our offices if there are any questions.

The Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account Number <u>50-0426</u>.

Respectfully submitted,

JENKINS, WILSON & TAYLOR, P.A.

Richard E. Jenkins

Registration No. 28,428

REJ/EEM/cht

Enclosures

Customer No: 25297

(Complete (if applicable)

Telephone 919-493-8000

September 9, 2003

PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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FEE TRANSMITTAL		Complete if Known					
		Application Number			er		
for FY 2003		Filing Date				Herewith	
			First Named Inventor		tor_	Keith E. Bowers	
Effective 01/01/2003. Patent fees are subject to annual revision.			Examiner Name				
X Applicant claims small entity status. See 37 CFR 1.27			Art Unit				
TOTAL AMOUNT OF PAYMENT (\$) 375.00	ı	Attorney Docket No.			o.	297/181	
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)					
Check Credit card Money Other None	3. A	DDITIONAL FEES					
X Deposit Account:	<u>Large</u>	Entity	Small				
Denosit	Fee Code	Fee (\$)	Fee Code	Fee (\$)		Fee Description	Fee Paid
Account Sumber 50-0426	1051	130	2051	65	Surch	arge - late filing fee or oath	
Deposit Account Jenkins, Wilson & Taylor, P.A.	1052	50	2052	25	Surch	arge - late provisional filing fee or	
Name L	1053	130	1053	130		English specification	
The Commissioner is authorized to: (check all that apply) X Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For fili	ing a request for ex parte reexamination	·}
X Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*	Reque	esting publication of SIR prior to iner action	
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requ	esting publication of SIR after	
to the above-identified deposit account. FEE CALCULATION	1251	110	2251	55		nsion for reply within first month	}
1. BASIC FILING FEE	1252	410	2252	205	Exter	nsion for reply within second month	
Large Entity Small Entity	1253	930	2253	465	Exter	nsion for reply within third month	
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,450	2254	725	Exter	nsion for reply within fourth month	
1001 760 2001 276 Utility filing for	1255	1,970	2255	985	Exter	nsion for reply within fifth month	
1002 330 2002 165 Design filling fee 375.00	1401	320	2401	160	Notic	e of Appeal	
1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing	brief in support of an appeal	
1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Requ	est for oral hearing	
1005 160 2005 80 Provisional filing fee		1,510	ļ	1,510		on to institute a public use proceeding	
SUBTOTAL (1) (\$) 375.00	1452	110	2452	55		on to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,300	2453	650		on to revive - unintentional	
Fee from Extra Claims below Fee Paid	1501	1,300 470	2501 2502	650 235	-	r issue fee (or reissue) gn issue fee	
Total Claims 20 -20** = 0 X = 0	1503	630	2503	315	•	issue fee	<u> </u>
Independent 2 - 3** = 0 x = 0	1460	130	1460	130		ons to the Commissioner	
Multiple Dependent	1807	50	1807	50	Proc	essing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806	180	Subm	nission of Information Disclosure Stmt	
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021	40	8021	40		rding each patent assignment per rty (times number of properties)	}
1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing	a submission after final rejection CFR 1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For e	ach additional invention to be	
1204 84 2204 42 ** Reissue independent claims over original patent.	1801	750	2801	375		ined (37 CFR 1.129(b)) · lest for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900		est for expedited examination design application	
SUBTOTAL (2) (\$) 0.00	Other	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above	*Red	uced by	Basic	Filing F	ee Pai	d SUBTOTAL (3) (\$)	0.00

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SUBMITTED BY

Name (Print/Type)

Signature

Richard E. Jenkins

Addendum

1. APPARATUS AND METHOD FOR REMOVING PHOSPHORUS FROM WASTE LAGOON EFFLUENT